

## ABSTRACT

To a fluorine-containing polymer, 0.1 to 10 % of a compound comprising an alkali metal or an alkaline earth metal in terms of the number of atoms of the alkali metal or the alkaline earth metal based on the total number of the above terminal groups, 5 0.1 to 10 % of ammonia in terms of the number of ammonia molecules based on the total number of the above terminal groups, or 0.1 to 10 % of a compound having an ammonium group in terms of the number of the ammonium groups based on the total number of the 10 above terminal groups is added, and heated at a temperature of at least 200°C in an atmosphere containing moisture.

By this process, unstable terminal groups such as terminal carboxylic acid groups and coloration caused by such terminal groups are effectively removed from the fluorine-containing 15 polymer, and furthermore unstable bonds in the backbones can be removed. The obtained fluorine-containing polymer contains  $1.0 \times 10^{13}$  spins/g or less of unpaired electrons on the carbon atoms in terms of a spin density measured with electron spin resonance at a temperature of 10K.